

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for augmenting soft or hard tissue within a mammalian body, comprising:

(a) providing a first crosslinkable component, wherein the first crosslinkable component is a synthetic polylysine or poly(alkylene oxide) having m nucleophilic groups, wherein m is 2, 3 or 4, and each nucleophilic group is independently amino or thiol;

(b) providing a second crosslinkable component, wherein the second crosslinkable component is poly(alkylene oxide) having n electrophilic groups capable of reaction with the ~~m nucleophilic groups~~ synthetic polylysine to form covalent bonds, wherein n is 2, 3 or 4 and ~~m + n~~ n ≥ 5 , and each electrophilic group is independently succinimidyl ester, succinimidyl carbonate, sulfosuccinimidyl ester, maleimido, epoxy, isocyanato, thioisocyanato, or ethenesulfonyl;

(c) applying the first and second crosslinkable components to the tissue; and

(d) allowing the first and second crosslinkable components to crosslink *in situ*,

wherein the first and second crosslinkable components are biocompatible, synthetic, and nonimmunogenic.

2. (Original) The method of claim 1, wherein step (c) comprises simultaneously applying the first and second crosslinkable components to the tissue.

3. (Original) The method of claim 2, wherein prior to step (c), the first and second crosslinkable components are admixed to provide a reaction mixture and initiate crosslinking, and step (c) comprises applying the reaction mixture to the tissue.

4-5. (Canceled)

6. (Original) The method of claim 1, wherein the n electrophilic groups in the second crosslinkable component are identical.

7-8. (Canceled)

9. (Original) The method of claim 1, wherein the n electrophilic groups in the second crosslinkable component are different.

10-19. (Canceled)

20. (Currently Amended) The method of claim 49], wherein the n electrophilic groups are selected from the group consisting of succinimidyl ester, succinimidyl carbonate and sulfosuccinimidyl ester.

21-24. (Canceled)

25. (Original) The method of claim 1, wherein the crosslinking conditions comprise admixture in an aqueous medium.

26. (Original) The method of claim 25, wherein the first and second crosslinkable components each represent about 0.5 wt.% to about 20 wt.% of the composition formed upon admixture.

27. (Original) The method of claim 25, wherein the crosslinking conditions further comprise admixture at a pH in the range of 7 to 8.

28. (Original) The method of claim 27, wherein the first and second crosslinkable components are at concentrations of 20 mg/mL to 200 mg/mL of the composition formed upon admixture.

29. (Original) The method of claim 1, wherein the first crosslinkable component is in an aqueous solution, the second crosslinkable component is in dry, particulate form, and admixing comprises combining the second crosslinkable component with the aqueous solution of the first crosslinkable component.

30. (Original) The method of claim 29, wherein the first and second crosslinkable components each represent about 0.5 wt.% to about 20 wt.% of the composition formed upon admixture.

31. (Original) The method of claim 29, wherein the crosslinking conditions further comprise admixture at a pH in the range of 7 to 8.

32. (Original) The method of claim 31, wherein the first and second crosslinkable components are at concentrations of 20 mg/mL to 200 mg/mL of the composition formed upon admixture.

33. (Original) The method of claim 1, wherein the first crosslinkable component is present in a molar excess relative to the second crosslinkable component.

34. (Original) The method of claim 1, wherein the second crosslinkable component is present in a molar excess relative to the first crosslinkable component.

35. (Currently Amended) A method for inhibiting the formation of adhesions following surgery or injury, comprising:

(a) providing a first crosslinkable component wherein the first crosslinkable component is a synthetic polylysine or poly(alkylene oxide) having m nucleophilic groups, wherein m is 2, 3 or 4, and each nucleophilic group is independently amino or thiol;

(b) providing a second crosslinkable component wherein the second crosslinkable component is poly(alkylene oxide) having n electrophilic groups capable of reaction with the ~~m nucleophilic groups~~ synthetic polylysine to form covalent bonds, wherein n is 2, 3 or 4, and ~~m + n ≥ 5~~, and each electrophilic group is independently succinimidyl ester, succinimidyl carbonate, sulfosuccinimidyl ester, maleimido, epoxy, isocyanato, thioisocyanato, or ethenesulfonyl;

(c) applying the first and second crosslinkable components to the tissues comprising, surrounding, and/or adjacent to a wound resulting from surgery or injury; and

(d) allowing the first and second crosslinkable components to crosslink *in situ*,

wherein the first and second crosslinkable components are biocompatible, synthetic, and nonimmunogenic.

36. (Original) The method of claim 35, wherein step (c) comprises simultaneously applying the first and second crosslinkable components to the tissues.

37. (Original) The method of claim 36, wherein prior to step (c), the first and second crosslinkable components are admixed to provide a reaction mixture and initiate crosslinking, and step (c) comprises applying the reaction mixture to the tissues.

38-39. (Canceled)

40. (Original) The method of claim 35, wherein the n electrophilic groups in the second crosslinkable component are identical.

41. (Original) The method of claim 36, wherein the n electrophilic groups in the second crosslinkable component are identical.

42. (Original) The method of claim 37, wherein the n electrophilic groups in the second crosslinkable component are identical.

43. (Original) The method of claim 35, wherein the n electrophilic groups in the second crosslinkable component are different.

44. (Original) The method of claim 36, wherein at least two of the n electrophilic groups in the second crosslinkable component are different.

45. (Original) The method of claim 37, wherein at least two of the n electrophilic groups in the second crosslinkable component are different.

46-53. (Canceled)

54. (Currently Amended) The method of claim ~~53~~35, wherein the n electrophilic groups are selected from the group consisting of succinimidyl ester, succinimidyl carbonate and sulfosuccinimidyl ester.

55-58. (Canceled)

59. (Original) The method of claim 35, wherein the crosslinking conditions comprise admixture in an aqueous medium.

60. (Original) The method of claim 59, wherein the first and second crosslinkable components each represent about 0.5 wt.% to about 20 wt.% of the composition formed upon admixture.

61. (Original) The method of claim 59, wherein the crosslinking conditions further comprise admixture at a pH in the range of 7 to 8.

62. (Original) The method of claim 61, wherein the first and second crosslinkable components are at concentrations of 20 mg/mL to 200 mg/mL of the composition formed upon admixture.

63. (Original) The method of claim 35, wherein the first crosslinkable component is in an aqueous solution, the second crosslinkable component is in dry, particulate form, and admixing comprises combining the second crosslinkable component with the aqueous solution of the first crosslinkable component.

64. (Original) The method of claim 63, wherein the first and second crosslinkable components each represent about 0.5wt % to about 20 wt.% of the composition formed upon admixture.

65. (Original) The method of claim 63, wherein the crosslinking conditions further comprise admixture at a pH in the range of 7 to 8.

66. (Original) The method of claim 65, wherein the first and second crosslinkable components are at concentrations of 20 mg/mL to 200 mg/mL of the composition formed upon admixture.

67. (Original) The method of claim 35, wherein the first crosslinkable component is present in a molar excess relative to the second crosslinkable component.

68. (Original) The method of claim 35, wherein the second crosslinkable component is present in a molar excess relative to the first crosslinkable component.

69. (Previously Presented) The method of claim 1 wherein the second crosslinkable component having n electrophilic groups is provided in a dry form.

70. (Canceled)

71. (Previously Presented) The method of claim 35 wherein the second crosslinkable component having n electrophilic groups is provided in a dry form.

72. (Canceled)

73. (Currently Amended) A method for augmenting soft or hard tissue within a mammalian body, comprising:

forming a crosslinked composition by combining a first crosslinkable component, wherein the first crosslinkable component is a synthetic polylysine or poly(alkylene oxide) having m nucleophilic groups, wherein m is 2, 3 or 4, and each nucleophilic group is independently amine or thiol, and a second crosslinkable component wherein the second crosslinkable component is poly(alkylene oxide) having n electrophilic groups, wherein n is 2, 3 or 4, ~~and m + n ≥ 5~~, and each electrophilic group is independently succinimidyl ester, succinimidyl carbonate, sulfosuccinimidyl ester, maleimido, epoxy, isocyanato, thioisocyanato, or ethenesulfonyl, and wherein the ~~nucleophilic groups the synthetic polylysine and the~~ electrophilic groups of the second crosslinkable component form covalent bonds; and

delivering the crosslinked composition to a tissue site.

74. (Previously Presented) The method of claim 73 wherein the delivering comprises injecting the crosslinked composition to the tissue site.

75. (Previously Presented) The method of claim 73 wherein the tissue site is sphincter, scar, bone, cartilage, or an intervertebral disk.

76-78. (Canceled)

79. (Previously Presented) The method of claim 73 wherein the second crosslinkable component is poly(alkylene oxide) functionalized with four electrophilic groups.

80. (Previously Presented) The method of claim 79 wherein the poly(alkylene oxide) is poly(ethylene glycol).

81. (Previously Presented) The method of claim 79 wherein the electrophilic groups are the same or different and independently succinimidyl ester, succinimidyl carbonate, sulfosuccinimidyl ester, malcimido, epoxy, isocyanato, thioisocyanato, and ethenesulfonyl.

82-84. (Canceled)